

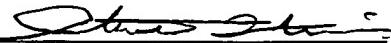


1647/1.FW  
CASE D0126 NP

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Stephen C. D'Amico  
Type or print name

  
Signature

2-23-05  
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF  
RAMANATHAN ET AL.

Art Unit: 1647  
Examiner: SEHARASEYON,  
JEGATHEESAN

APPLICATION NO: 10/081,775

FILED: FEBRUARY 21, 2002

FOR: POLYNUCLEOTIDE ENCODING A HUMAN G-PROTEIN COUPLED  
RECEPTOR, HGPRBMY25, EXPRESSED HIGHLY IN IMMUNE-  
RELATED TISSUES

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

FEE LETTER FOR INFORMATION DISCLOSURE STATEMENT

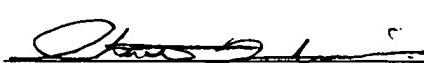
Sir:

Please charge Deposit Account No. 19-3880 in the name of Bristol-Myers Squibb Company in the amount of \$180 for payment of the fee pursuant to 37 CFR §1.17(p) for the submission of an Information Disclosure Statement under 37 CFR §1.97(c).

An additional copy of this paper is here enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 19-3880 in the name of Bristol-Myers Squibb Company.

Respectfully submitted,

Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-5289  
Date: 2-23-05

  
Stephen C. D'Amico  
Agent for Applicants  
Reg. No. 46,652

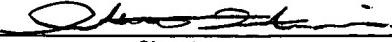


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Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is being filed in accordance with 37 C.F.R. §1.97(c).  
A letter for payment of fee set forth in 37 C.F.R. §1.17(p) is enclosed.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

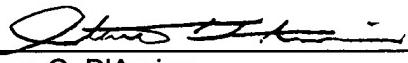
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The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-5289

  
\_\_\_\_\_  
Stephen C. D'Amico  
Agent for Applicants  
Reg. No. 46,652

Date: 2-23-05

FORM PTO-1449  
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE CITATION

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FEBRUARY 21, 2002Group  
1647

## U.S. RELATED PATENT APPLICATIONS

EXAMINER INITIAL		U.S. APPLICATION	DATE OF FILING	NAME	CLASS	SUBCLASS	FILING DATE
	AA	60/306,803	7/20/01	Ramanathan, et al.			

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AB	5063154	11/5/91	Fink, et al.			
	AC	2003/0198955 A1	10/23/03	Li, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES	NO
	AD	WO9201810	2/6/92	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AE	WO0216548 A2	2/28/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AF	EP1270724 A2	6/18/02	EP			<input type="checkbox"/>	<input type="checkbox"/>
	AG	WO0250276 A2	6/27/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

AH	Abdalla, et al., "AT1-receptor heterodimers show enhanced G-protein activation and altered receptor sequestration", Nature, Vol. 407, pp. 94-98 (2000)
AI	Akbar, et al., "Molecular Cloning of a Novel P2 Purinoceptor from Human Erythroleukemia Cells", J. Biol. Chem., Vol. 271(31), pp. 18363-18367 (1996)
AJ	Alam, et al., "Reporter Genes: Application to the Study of Mammalian Gene Transcription", Analytical Biochemistry, Vol. 188, pp 245-254 (1990)

EXAMINER	DATE CONSIDERED

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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2AA	Altschul, et al., "Gapped Blast and PSI-Blast: a new generation of protein database search programs", Nucleic Acids Res., Vol. 25(17), pp. 3389-3402 (1997)
2AB	Amatruda, et al., "G $\alpha$ 16, a G protein $\alpha$ subunit specifically expressed in hematopoietic cells", PNAS, Vol. 88, pp. 5587-5591 (1991)
2AC	Baldwin, Joyce, M., "Structure and function of receptors coupled to G proteins", Curr. Opin. Cell Biol., Vol. 6, pp. 180-190 (1994)
2AD	Baud, et al., "EMR1, an Unusual Member in the Family of Hormone Receptors with Seven Transmembrane Segments", Genomics, Vol. 26, pp. 334-344 (1995)
2AE	Bolander, Franklyn, F., "Molecular Endocrinology", (second Ed.), Academic Press, Copyright 1994, pp. 162-176
2AF	Boss, et al., "Induction of NFAT-mediated Transcription by G $\alpha$ -coupled Receptors in Lymphoid and Non-lymphoid Cells", JBC, Vol. 271, pp. 10429-10432 (1996)
2AG	Chen, et al., "Constitutive receptor systems for drug discovery", J. Pharmacol. Toxicol. Methods, Vol. 42, pp. 199-206 (1999)
2AH	Conklin, et al., "Substitution of three amino acids switches receptor specificity of G $\alpha$ to that of G $\beta$ ", Nature, Vol. 363, pp. 274-276 (1993)
2AI	Conklin, et al., "Carboxyl-Terminal Mutations of G $\alpha$ q and G $\alpha$ s That Alter the Fidelity of Receptor Activation", Molecular Pharm., Vol. 50, pp. 885-890 (1996)
2AJ	Cornfield, et al., "[ $^3$ H]2-Phenylaminoadenosine ( $^3$ [H]CV 1808) Labels a Novel Adenosine Receptor in Rat Brain", J. Pharma. Exper. Therapeutics, Vol. 263(2), pp. 552-561 (1992)
2AK	Coughlin, Shaun, R., "Expanding horizons for receptors coupled to G proteins: diversity and disease", Curr. Opin. Cell Biol., Vol. 6, pp. 191-197 (1994)
2AL	Dorn, et al., "Low- and high-level transgenic expression of $\beta_2$ -adrenergic receptors differentially affect cardiac hypertrophy and function in G $\alpha$ q-overexpressing mice", PNAS, Vol. 96, pp. 6400-6405 (1999)
2AM	Feng, et. al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor", Science, Vol. 272, pp. 872-877 (1996)
2AN	Fiering, et al., "Single cell assay of a transcription factor reveals a threshold in transcription activated by signals emanating from the T-cell antigen receptor", Genes & Develop. Vol. 4, pp. 1823-1834 (1990)

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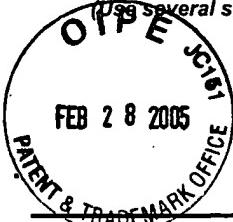
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	3AA	George, et al., "Functional Coupling of Endogenous Serotonin (5-HT <sub>1B</sub> ) and Calcitonin (C1a) Receptors in CHO Cells to a Cyclic AMP-Responsive Luciferase Reporter Gene", J. Neurochem., Vol. 69, pp. 1278-1285 (1997)
	3AB	Gray, et al., "CD97 is a Processed, Seven-Transmembrane, Heterodimeric Receptor Associated with Inflammation", J. Immun., Vol. 157, pp. 5438-5447 (1996)
	3AC	Gilman, A. G., "G Proteins: Transducers of Receptor-Generated Signals", Ann. Rev. Biochem., Vol. 56, pp. 615-649 (1987)
	3AD	Hawes, et al., "Phosphatidylinositol 3-Kinase Is an Early Intermediate in the G $\beta\gamma$ -mediated Mitogen-activated Protein Kinase Signaling Pathway", JBC, Vol. 271, pp. 12133-12136 (1996)
	3AE	Hofmann, et al., "A Database of Membrane Spanning Protein Segments", Biol. Chemie, Vol. 374, pp. 166 (1993)
	3AF	Horn, et al., "G protein-coupled receptors <i>in silico</i> ", J. Mol. Med., Vol. 76, pp. 464-468 (1998)
	3AG	Horn, et al., "The Interaction of Class B G Protein-Coupled Receptors with their Hormones", Receptors Chann., Vol. 5, pp. 305-314 (1998)
	3AH	Kaminski, et al., "Suppression of the Humoral Immune Response by Cannabinoids is Partially Mediated Through Inhibition of Adenylate Cyclase by a Pertussis Toxin-Sensitive G-Protein Coupled Mechanism", Biochem. Pharma., Vol. 48(10), pp. 1899-1908 (1994)
	3AI	Karttunen et al., "Measurement of ligand-induced activation in single viable T cells using the <i>laZ</i> reporter gene", PNAS, Vol. 88, pp. 3972-3976 (1991)
	3AJ	Kim, et al., "Structure and function in rhodopsin: Rhodopsin mutants with a neutral amino acid at E134 have a partially activated conformation in the dark state", PNAS, Vol. 94, pp. 14273-14278 (1997)
	3AK	Kypson, et al., "Adenovirus-mediated gene transfer of the $\beta_2$ -adrenergic receptor to donor hearts enhances cardiac function", Gene Therapy, Vol. 6, pp. 1298-1304 (1999)
	3AL	Lee, et al., "Reversal of Human Neutrophil Survival by Leukotriene B <sub>4</sub> Receptor Blockade and 5-Lipoxygenase and 5-Lipoxygenase Activating Protein Inhibitors", Am. J. Respir. Crit. Care Med., Vol. 160, pp. 2079-2085 (1999)
	3AM	Lu, et al., "The Functional Topography of Transmembrane Domain 3 of the M <sub>1</sub> Muscarinic Acetylcholine Receptor, Revealed by Scanning Mutagenesis", J. Biol. Chem., Vol. 274(11), pp. 7309-7315 (1999)
	3AN	Manfredi, et al., "Yeast $\alpha$ Mating Factor Structure-Activity Relationship Derived from Genetically Selected Peptide Agonists and Antagonists of Ste2p", Molec. Cell. Biol., Vol. 16(9), pp. 4700-4709 (1996)

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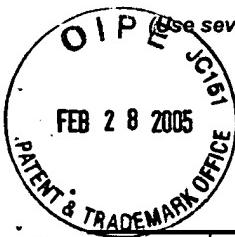
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	4AA	Meltzer, Eli, O., "Role for cysteinyl leukotriene receptor antagonist therapy in asthma and their potential role in allergic rhinitis based on the concept of "one linked airway disease", Ann. Allergy Asthma Immunol., Vol. 84, pp. 176-187 (2000)
	4AB	Monnot, et al., "Cloning and Functional Characterization of a Novel mas-Related Gene, Modulating Intracellular Angiotensin II Actions", Molec. Endocrin., Vol. 5(10), pp. 1477-1487 (1991)
	4AC	Needleman, et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., Vol. 48, pp. 443-453 (1970)
	4AD	Okada, et al., "Activation of rhodopsin: new insights from structural and biochemical studies", Trends Bio. Sci., Vol. 26(5), pp. 318-324 (2001)
	4AE	Parma, et al., "Somatic mutations in the thyrotropin receptor gene cause hyperfunctioning thyroid adenomas", Nature, Vol. 365, pp. 649-651 (1993)
	4AF	Raming, et al., "Identification of a Novel G-Protein Coupled Receptor Expressed in Distinct Brain Regions and a Defined Olfactory Zone", Receptors Channels, Vol. 6, pp. 141-151 (1998)
	4AG	Rees, et al. (1999) Signal Transduction: A Practical Approach. Oxford: Oxford University Press 171-221
	4AH	Salcedo, et al, "Human endothelial cells express CCR2 and respond to MCP-1: direct role of MCP-1 in angiogenesis and tumor progression", Blood, Vol. 96, pp. 34-40 (2000)
	4AI	Schatz, et al., "Inhibition of Adenylate Cyclase by $\nabla$ -9-Tetrahydrocannabinol in Mouse Spleen Cells: A Potential Mechanism for Cannabinoid-Mediated Immunosuppression", Life Sciences, Vol. 51, pp. PL 25-30 (1992)
	4AJ	Selbie, et al., "G protein-coupled-receptor cross-talk: the fine-tuning of multiple receptor-signalling pathways", TiPS, Vol. 19, pp. 87-93 (1998)
	4AK	Sica, et al, "Defective Expression of the Monocyte Chemotactic Protein-1 Receptor CCR2 in Macrophages Associated with Human Ovarian Carcinoma", Amer. J. Immunology, Vol.164, pp. 733-738 (2000)
	4AL	Strosberg, Arthur, Donny, "Structure/function relationship of proteins belonging to the family of receptors coupled to GTP-binding proteins", Eur. J. Biochem., Vol. 196, pp. 1-10 (1991)
	4AM	Suto, et al., "Selection of an Optimal Reporter Gene for Cell-Based High Throughput Screening Assays", J. Biomol. Screening, Vol. 2, pp.7-9 (1997)
	4AN	Tao, et al., "Constitutive Activation of G Protein-Coupled Receptors as a Result of Selective Substitution of a Conserved Leucine Residue in Transmembrane Helix III", Molec. Endocrin., Vol. 14(8), pp. 1272-1282 (2000)

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	5AA	Thomas, et al., "Chemoreceptors expressed in taste, olfactory and male reproductive tissues", Gene, Vol. 178, pp. 1-5 (1996)
	5AB	Watson, et al., "The G-protein Linked Receptor Facts Book", Academic Press, San Diego CA, pp. 2-6 (1994)
	5AC	Watson, et al., "The G-protein Linked Receptor Facts Book", Academic Press, San Diego CA, pp. 19-31 (1994)
	5AD	Wess, J., "G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition" Biochem., Vol. 11, pp. 346-354 (1997)
	5AE	Whitney, et al., "A genome-wide functional assay of signal transduction in living mammalian cells", Nature Biotech., Vol. 16, pp. 1329-1333 (1998)
	5AF	Wilkie, et al., "Characterization of G-protein $\alpha$ subunits in the G <sub>q</sub> class: Expression in murine tissues and in stromal and hematopoietic cell lines", PNAS, Vol. 88, pp. 10049-10053 (1991)
	5AG	Zlokarnik, et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with $\beta$ -Lactamase as Reporter", Science, Vol. 279, pp. 84-88 (1998)
	5AH	Yoshida, et al., "Efficacy of leukotriene receptor antagonist in bronchial hyperresponsiveness and hypersensitivity to analgesic in aspirin-intolerant asthma", Clin. Exp. Allergy, Vol. 30, pp. 64-70 (2000)
	5AI	Xu, et al., "PSGR, a Novel Prostate-specific Gene with Homology to a G Protein-coupled Receptor, is Overexpressed in Prostate Cancer", Cancer Res., Vol. 60, pp. 6568-6572 (2000)
	5AJ	NCBI Entrez Accession No. AAD12761 (gi:3420759), Raming, et al., February 5, 1999
	5AK	NCBI Entrez Accession No. AAG40776 (gi:11875778), Li, et al., December 17, 2000
	5AL	NCBI Entrez Accession No. AAG41676 (gi:11908211), Bulger, et al., December 20, 2000
	5AM	NCBI Entrez Accession No. AAG41686 (gi:11908222), Bulger, et al., December 20, 2000
	5AN	NCBI Entrez Accession No. AC026090 (gi:9958310), Waterson, R.H., September 1, 2000

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